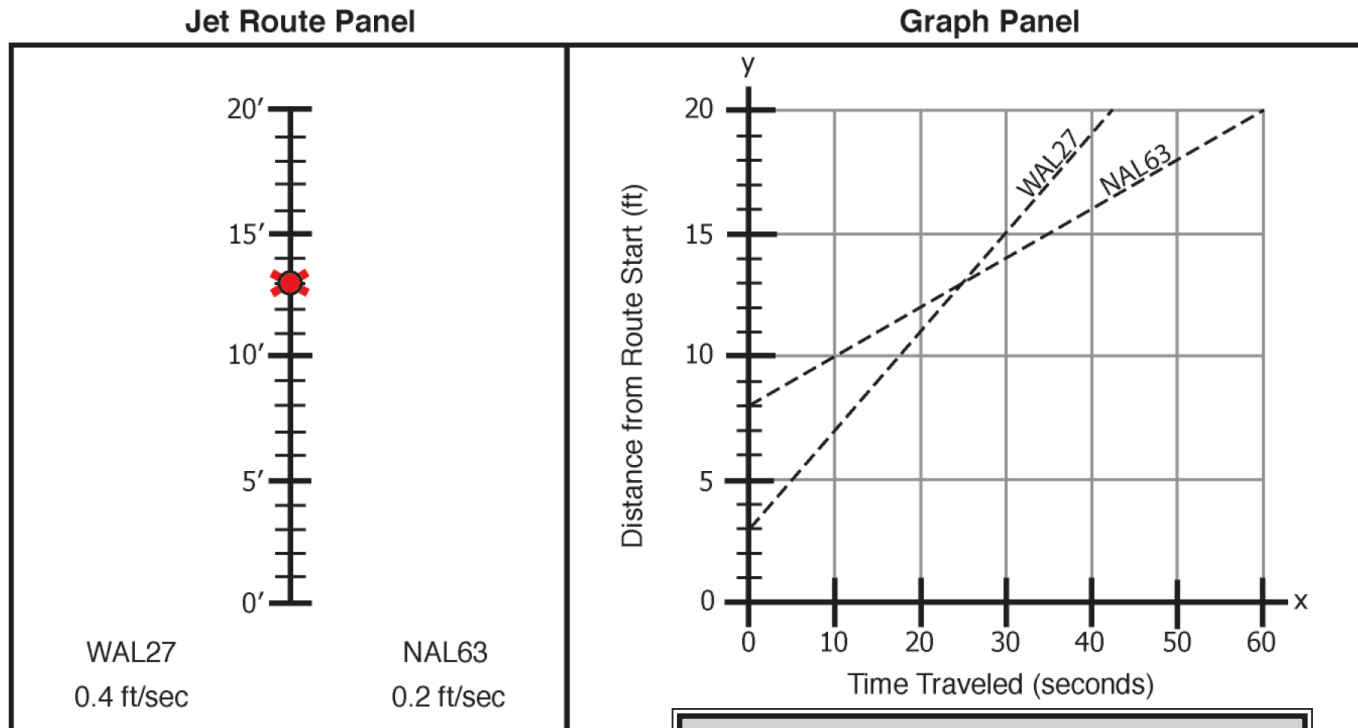




Student Assessment E

Analyzing a Distance vs. Time Graph for Two Planes

1. Use the information given in the Graph Panel to do the problem below. You do *not* need to use the simulator.



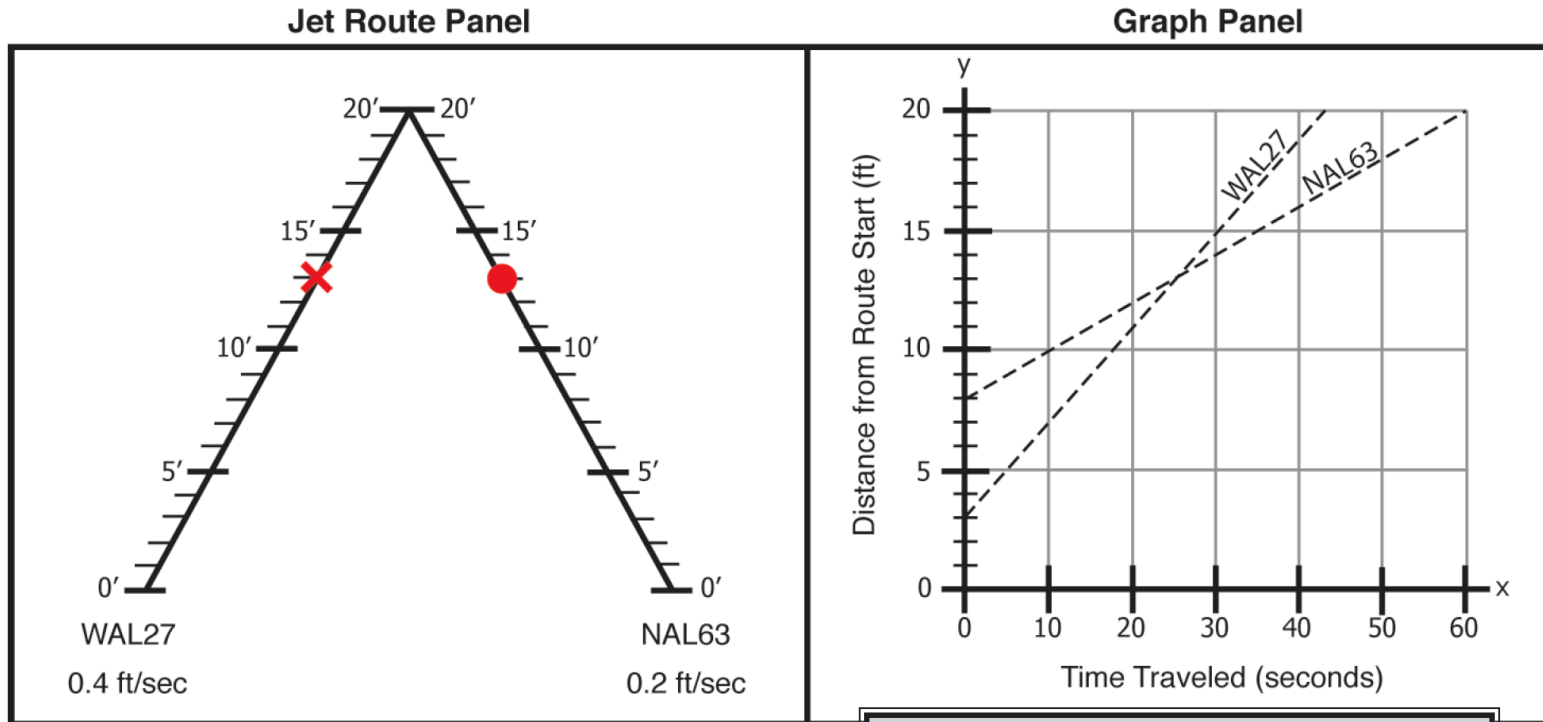
The WAL27 line and the NAL63 line cross when time $x = 25$ seconds.

Jet Route Panel:

- (a) Place an ✕ at the WAL27 position at 25 seconds
- (b) Place a dot (•) at the NAL63 position at 25 seconds.
- (c) Do the planes collide? Yes No



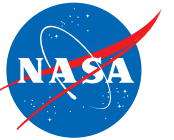
2. Use the information given in the Graph Panel to do the problem below. You do **not** need to use the simulator.



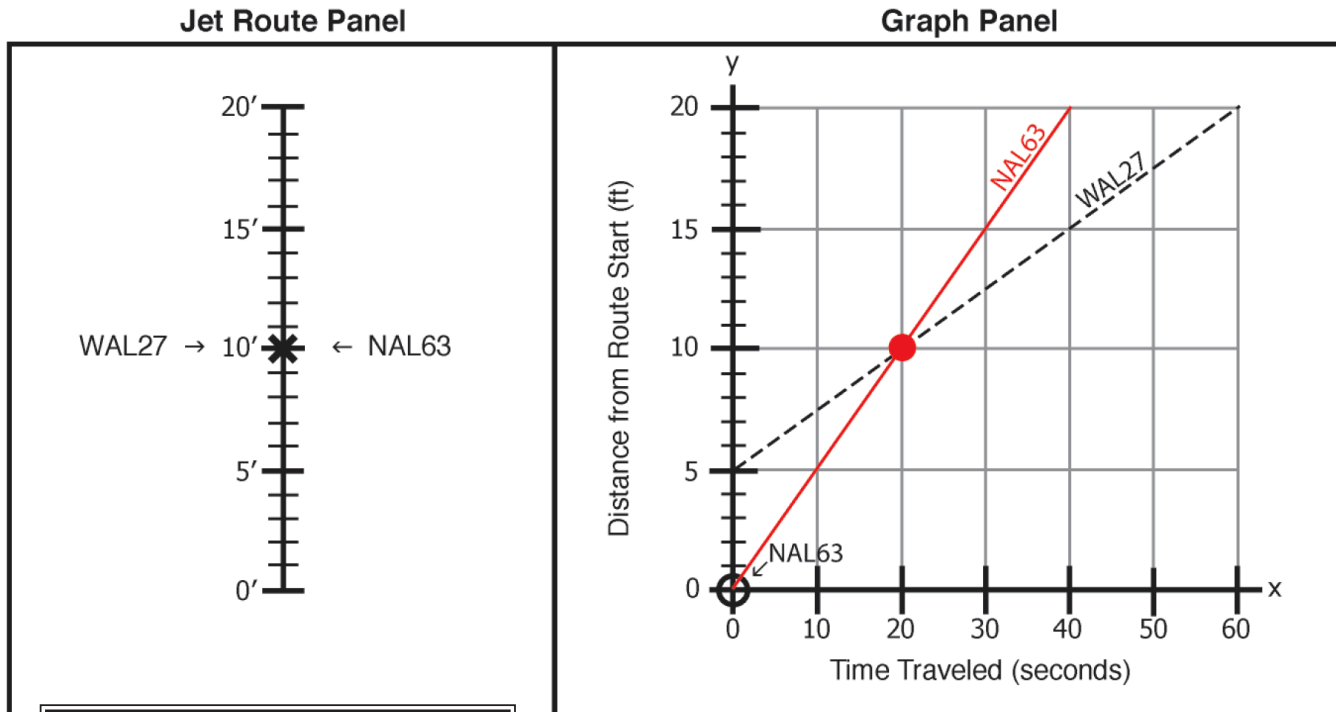
Jet Route Panel:

- (a) Place an ✕ at the WAL27 position at 25 seconds
- (b) Place a dot (•) at the NAL63 position at 25 seconds.
- (c) Do the planes collide? Yes No

The WAL27 line and the NAL63 line cross when time $x = 25$ seconds.



3. Use the information given in the Jet Route Panel to do the problem below. You do **not** need to use the simulator.



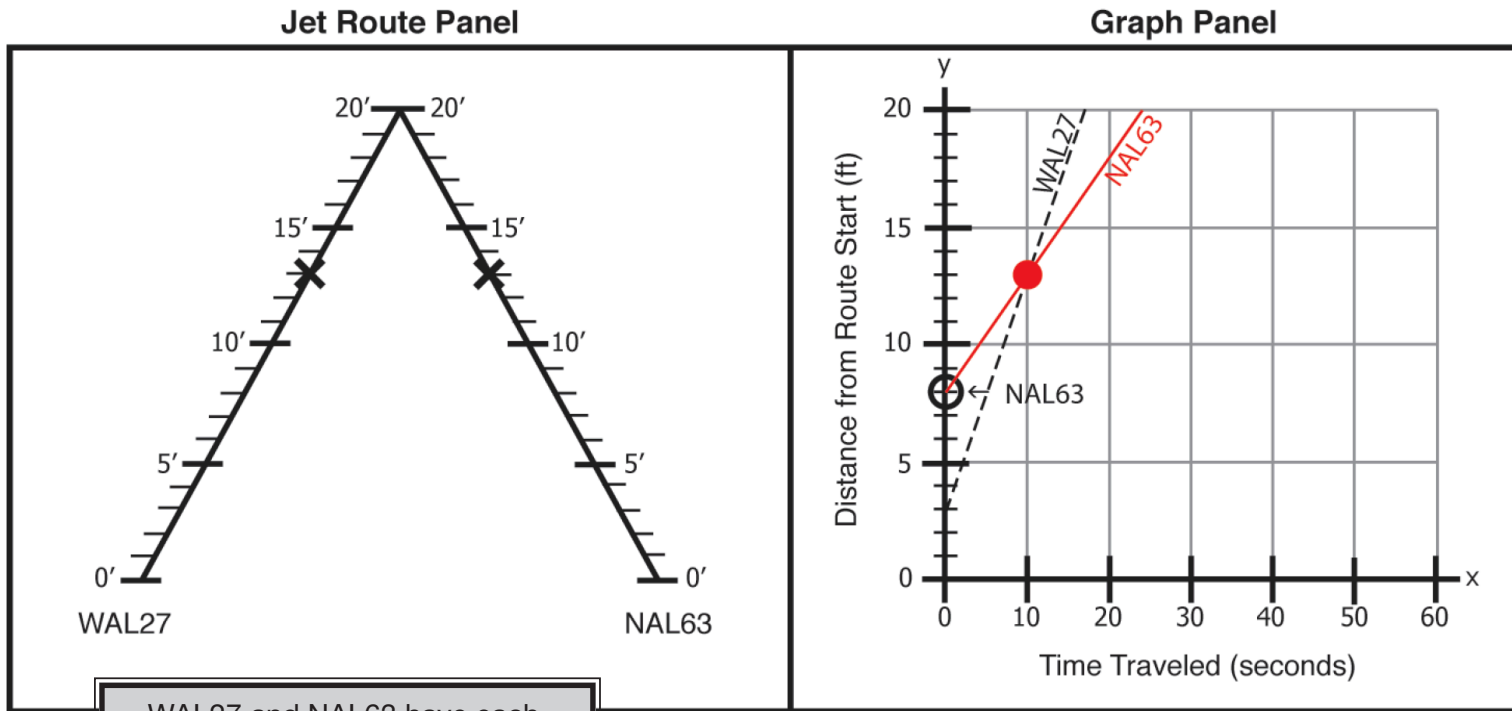
WAL27 and NAL63 have each flown to 10 feet on the jet route.

Graph Panel: The WAL27 line is shown. One point for the NAL63 line is shown.

- (a) Plot one more point (•) for the NAL63 line.
- (b) Connect the two points to draw the NAL63 line.



4. Use the information given in the Jet Route Panel to do the problem below. You do **not** need to use the simulator.



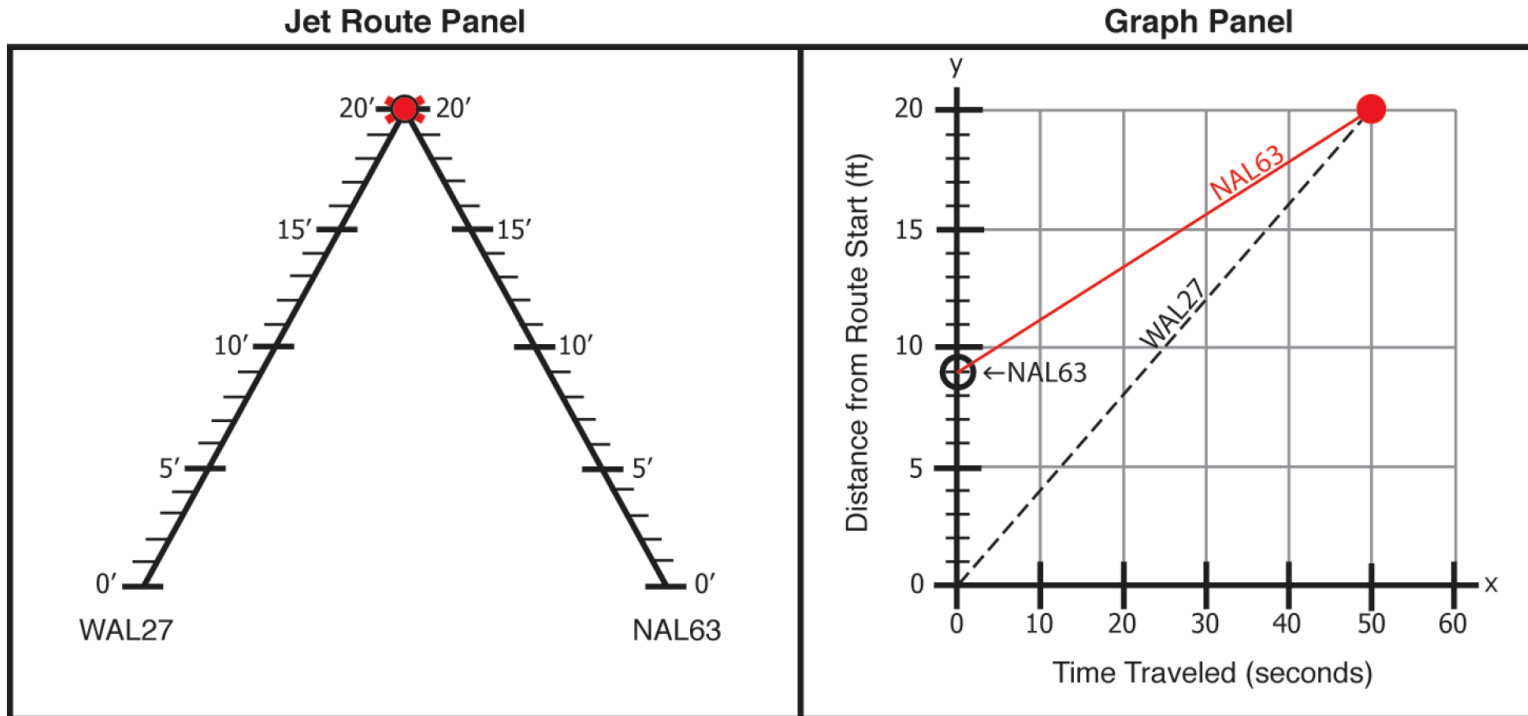
WAL27 and NAL63 have each flown to 13 feet on their jet routes.

Graph Panel: The WAL27 line is shown. One point for the NAL63 line is shown.

- (a) Plot one more point (•) for the NAL63 line.
- (b) Connect the two points to draw the NAL63 line.



4. Use the information given in the panels to do the problem below. You do **not** need to use the simulator.



Jet Route Panel:

- (a) Place an **x** at the WAL27 and a dot (•) for NAL63 at the point where a collision can occur.

Graph Panel: The WAL27 line is shown. One point for the NAL63 line is shown.

- (a) Plot one more point (•) for the NAL63 line.
(b) Connect the two points to draw the NAL63 line.